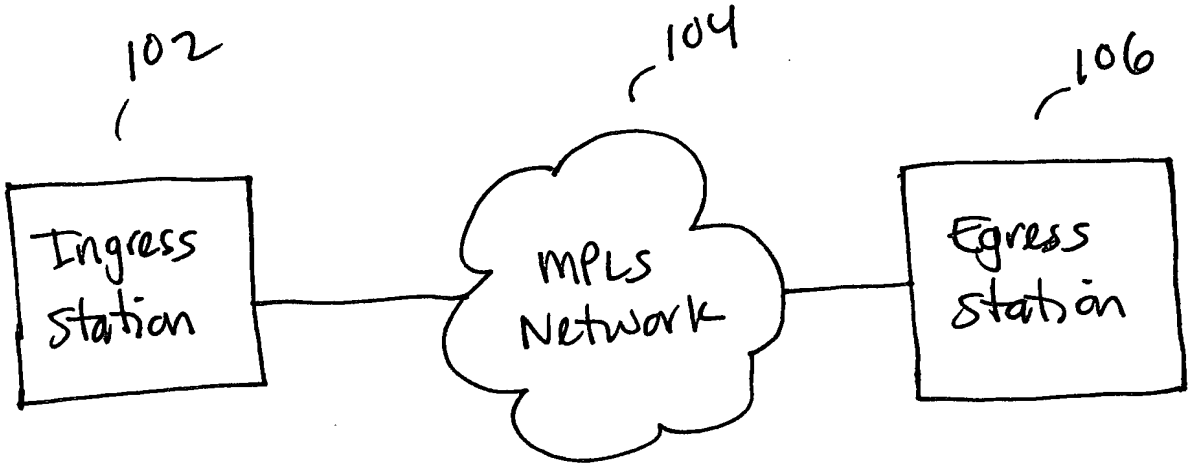

FIG. 1 100

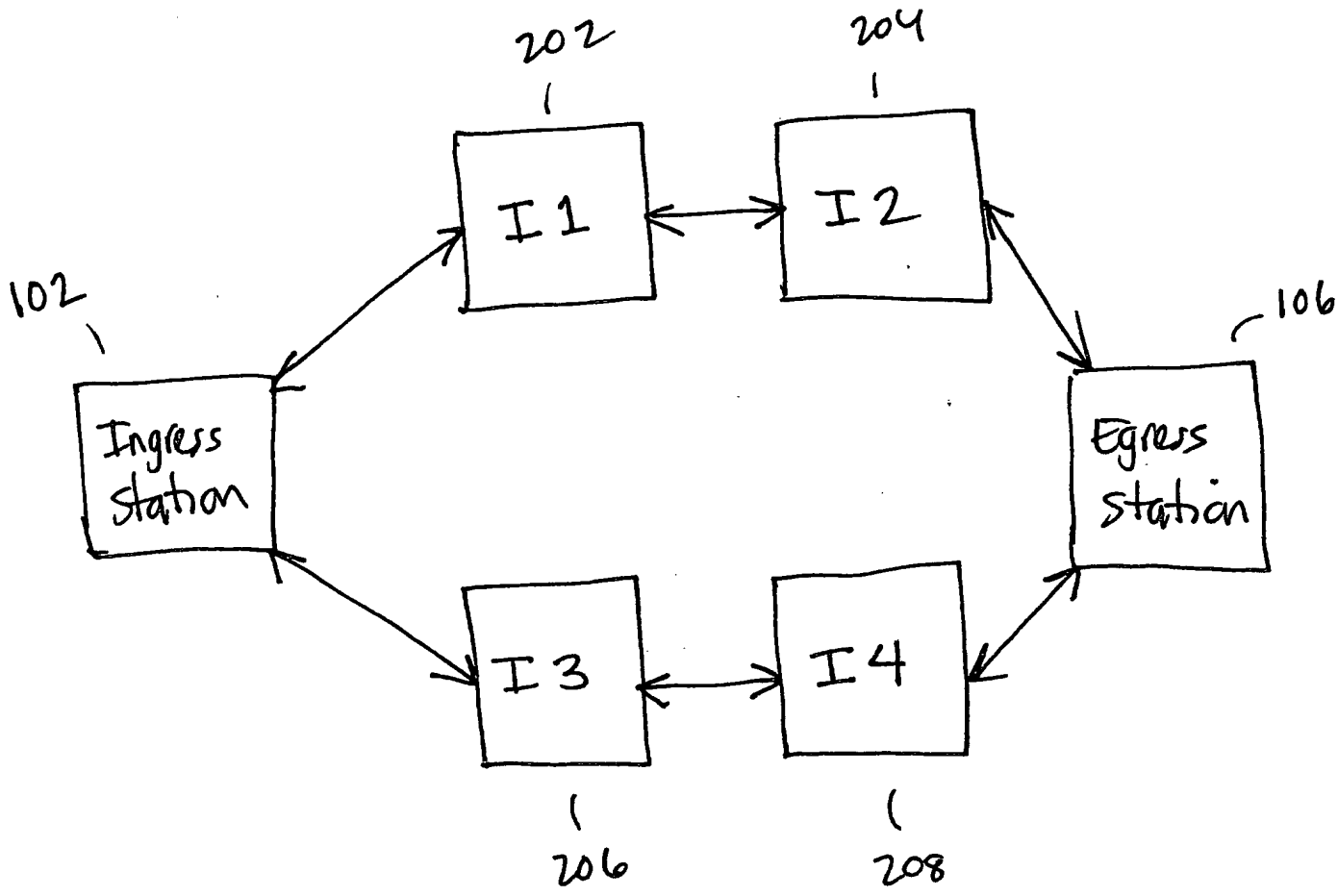
202
204
I1
I2
102
106
Ingress station
Egress station
I3
I4
206
208

FIG. 2 200

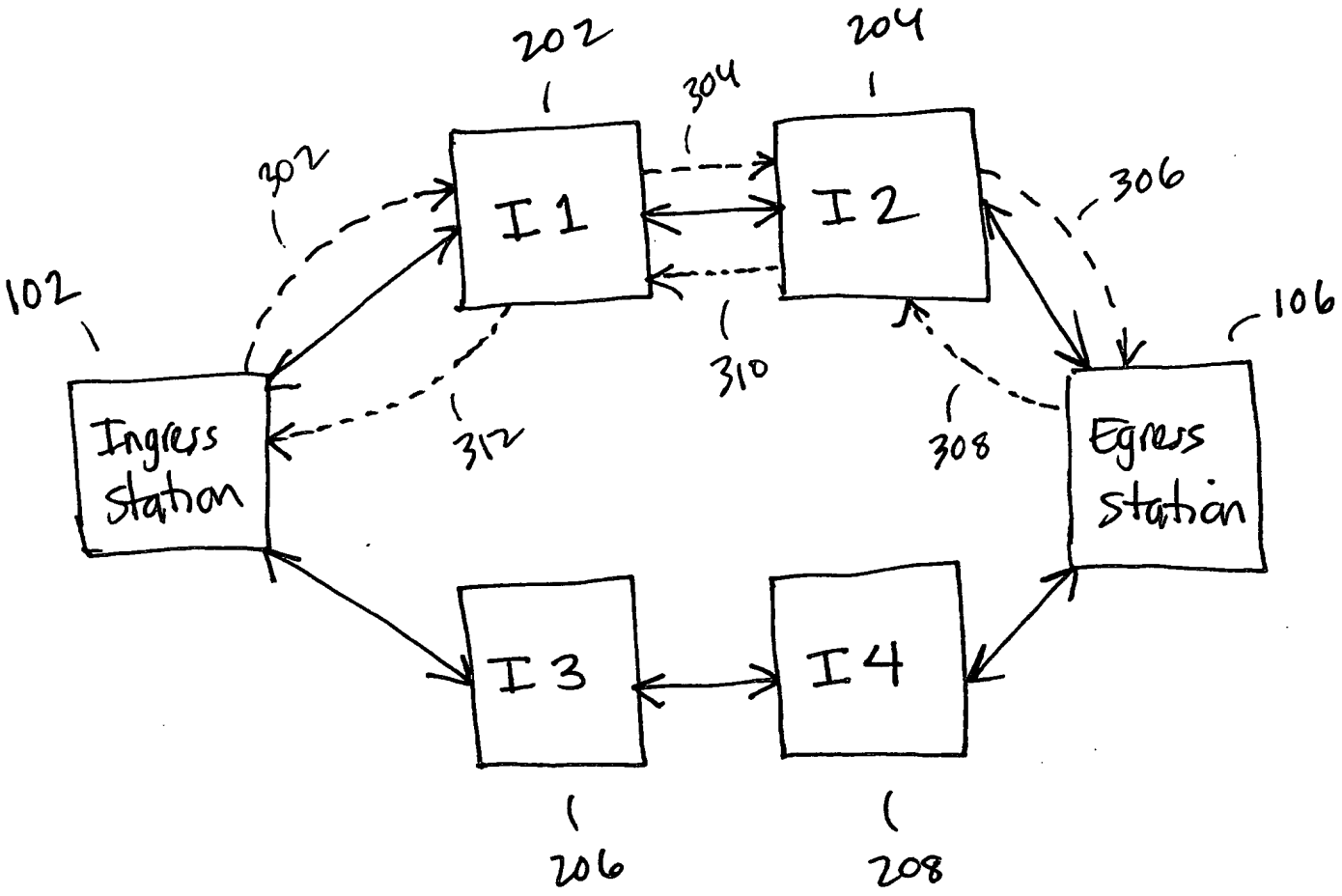
202
204
304
I 1
I 2
302
306
102
106
Ingress station
Egress station
310
312
308
I 3
I 4
206
208

FIG. 3A

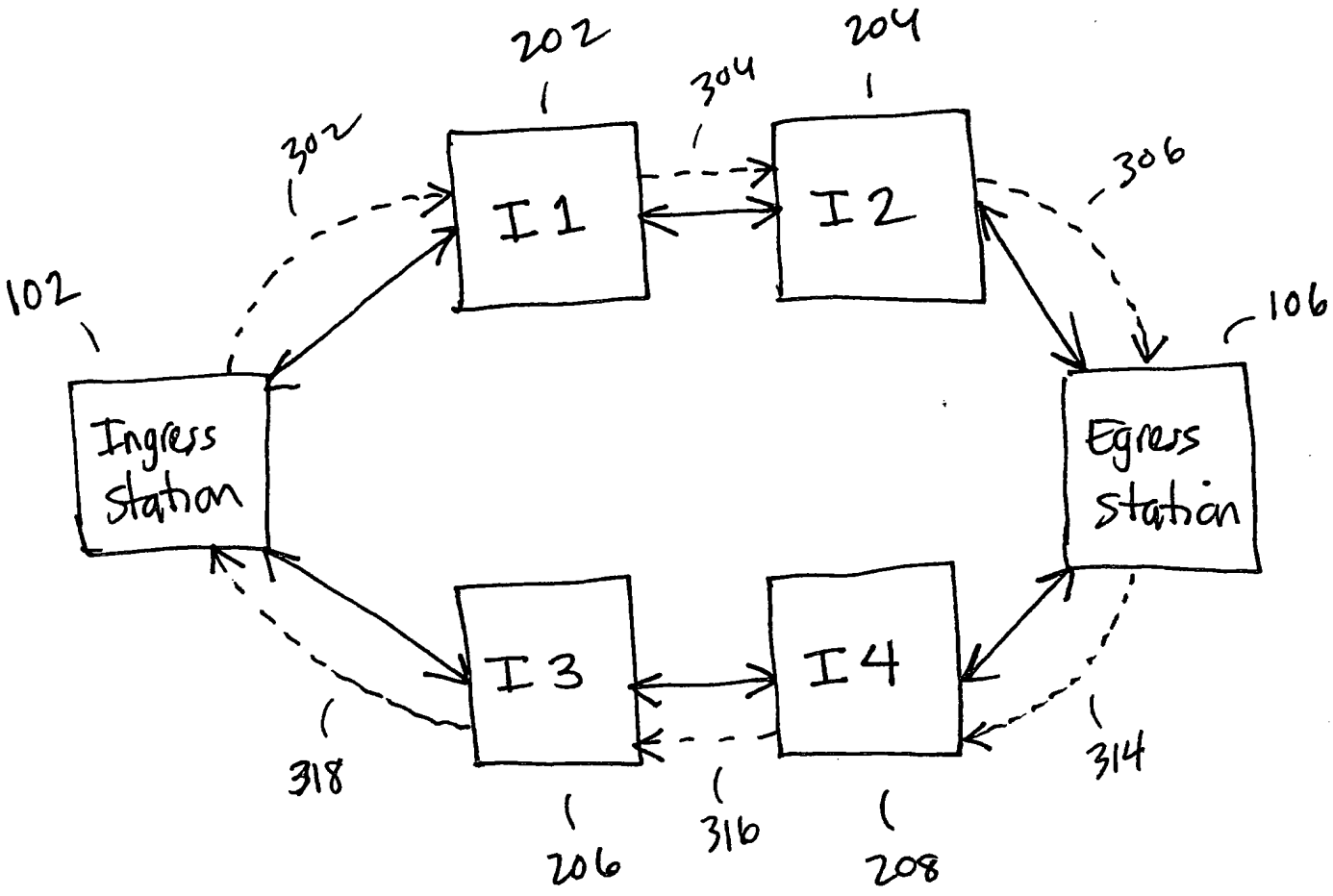
202
204
304
302
306
I 1
I 2
102
106
Ingress station
Egress station
I 3
I 4
318
314
206
316
208

FIG. 3B

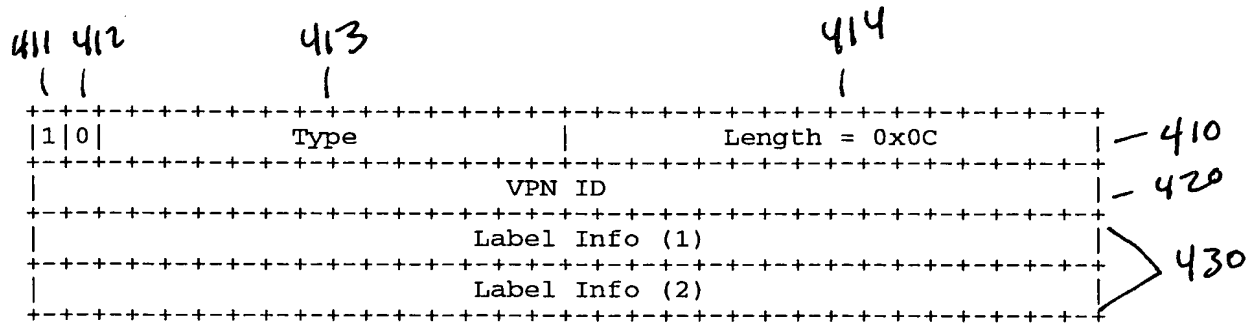
411
412
413
414
|1|0|
Type
Length = 0x0C
410
VPN ID
420
Label Info (1)
Label Info (2)
430

FIG. 4 400

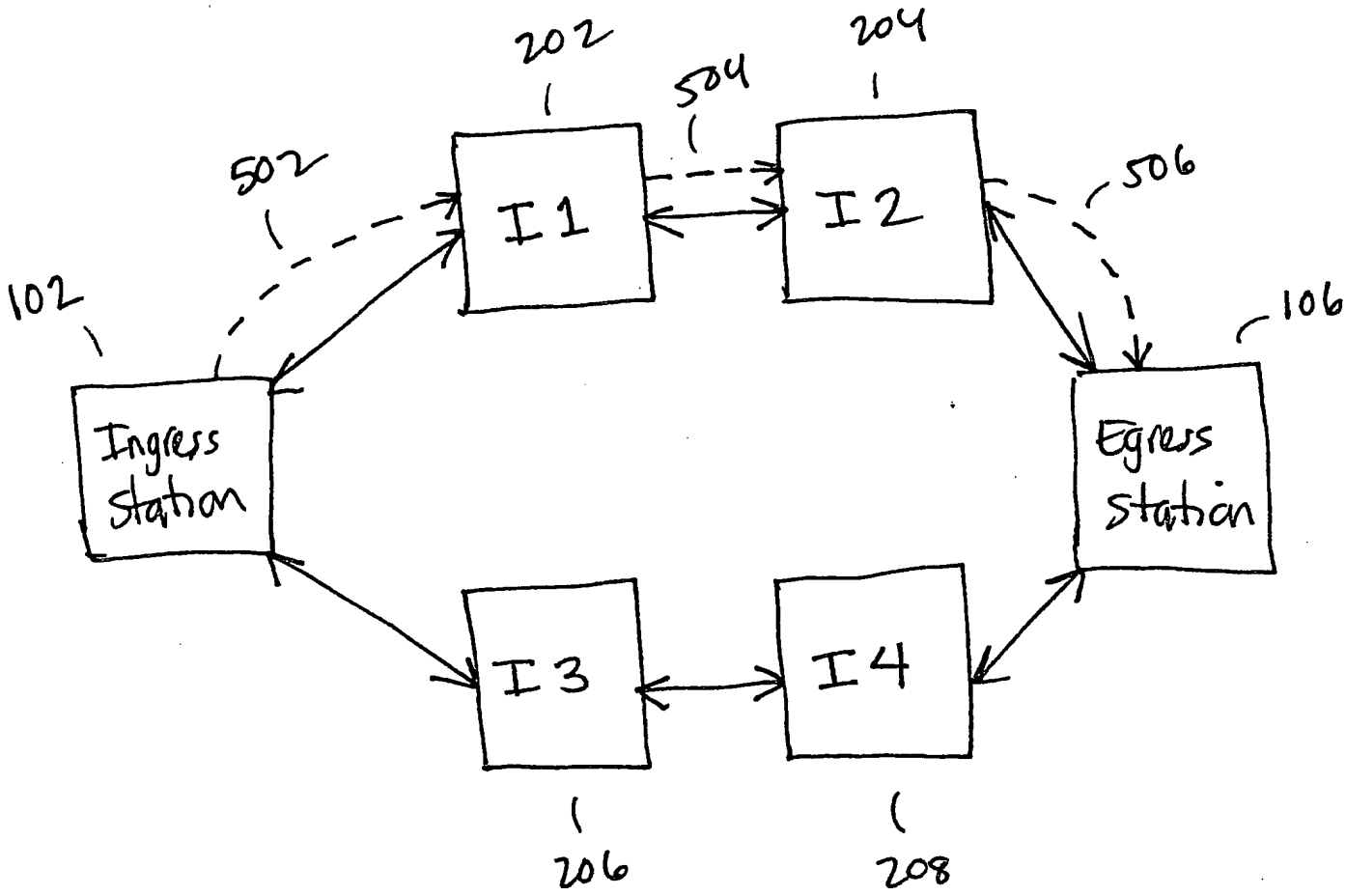
202
204
504
502
506
I1
I2
102
106
Ingress Station
Egress Station
I3
I4
206
208

FIG. 5

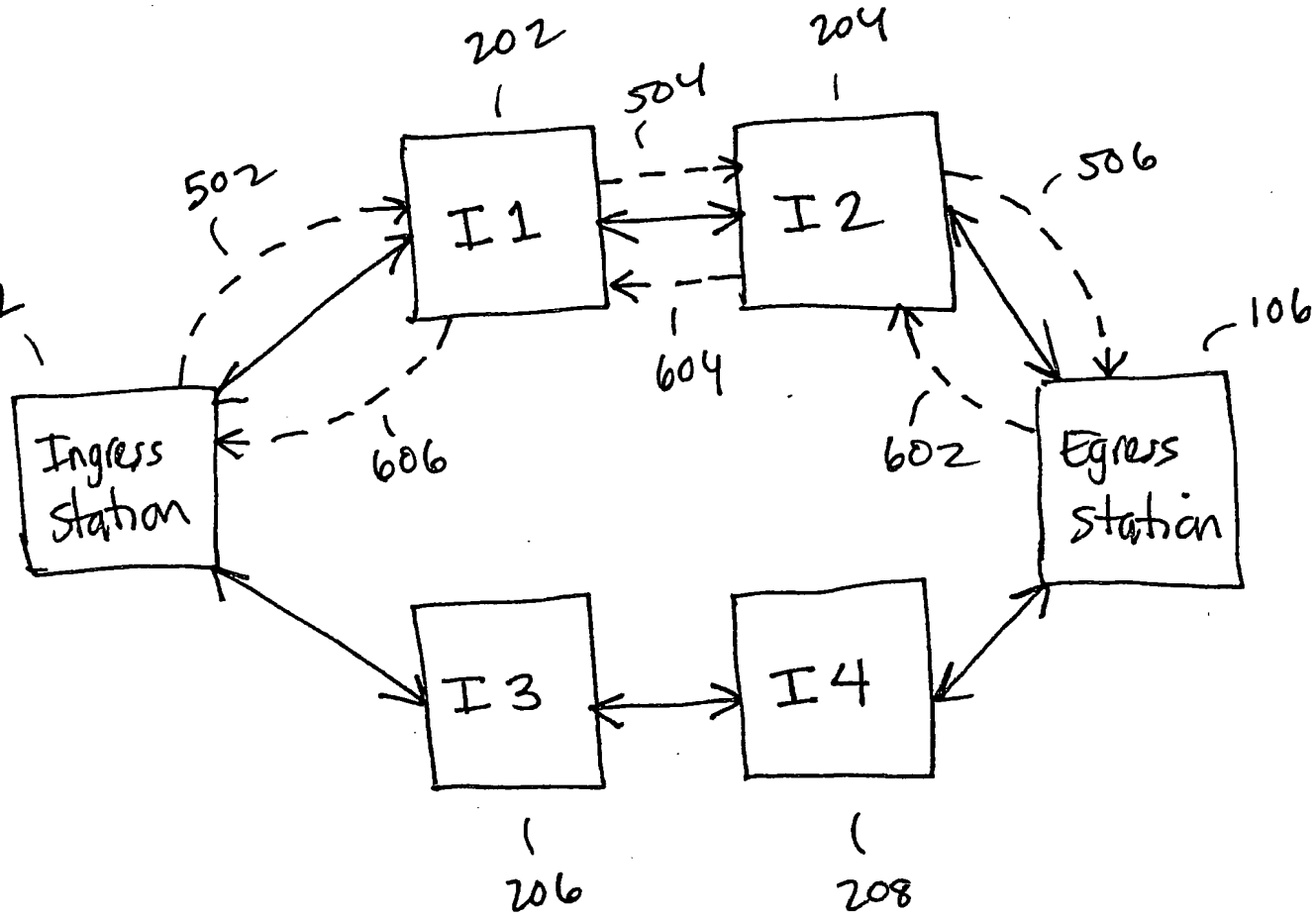
202
204
504
502
506
I1
I2
102
106
604
Ingress Station
606
602
Egress Station
I3
I4
206
208

FIG. 6

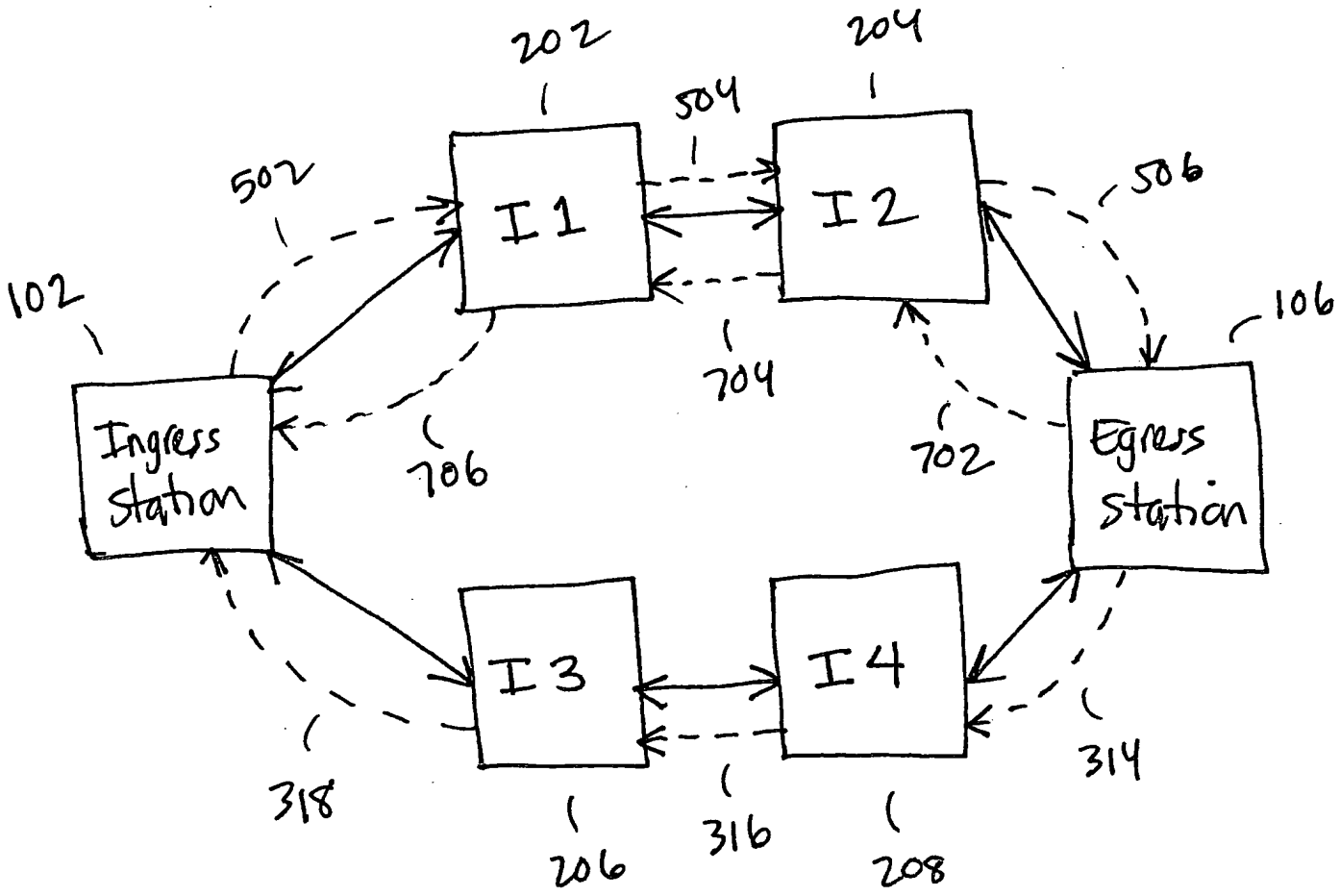
202
204
504
502
506
I1
I2
102
106
Ingress Station
Egress Station
704
706
702
I3
I4
318
314
206
316
208

FIG. 7

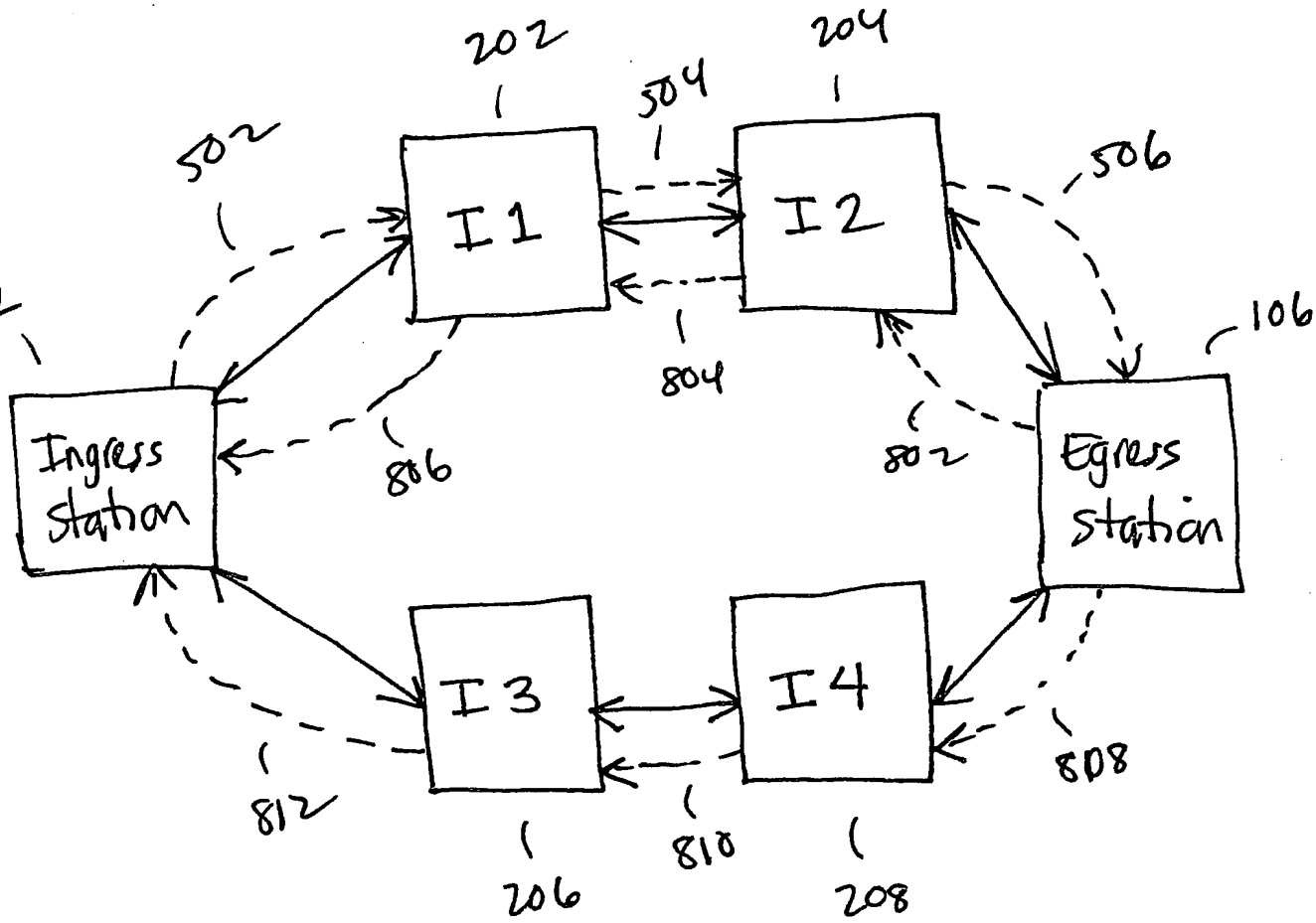
202
204
504
502
506
I1
I2
102
106
804
Ingress station
806
802
Egress station
I3
I4
812
808
810
206
208

FIG. 8

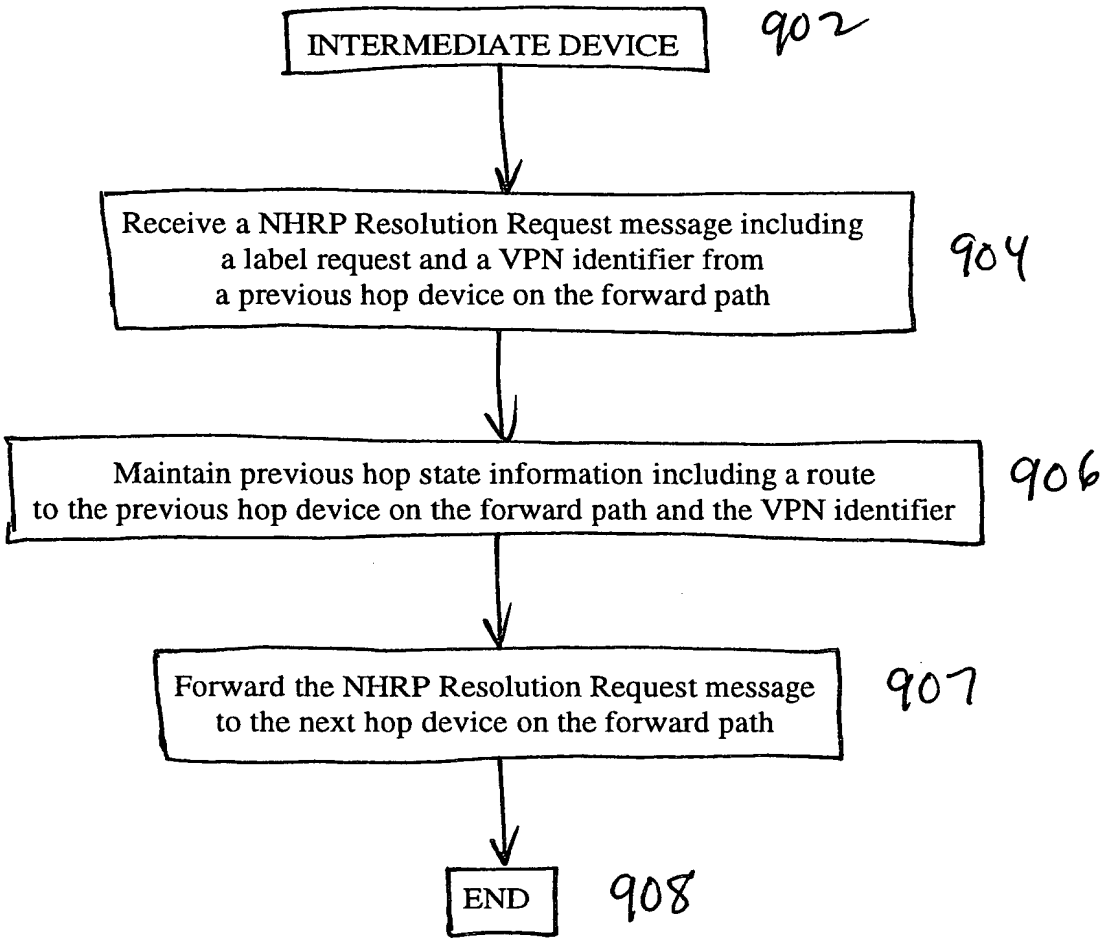
INTERMEDIATE DEVICE
902
Receive a NHRP Resolution Request message including a label request and a VPN identifier from a previous hop device on the forward path
904
Maintain previous hop state information including a route to the previous hop device on the forward path and the VPN identifier
906
Forward the NHRP Resolution Request message to the next hop device on the forward path
907
END
908

FIG. 9A

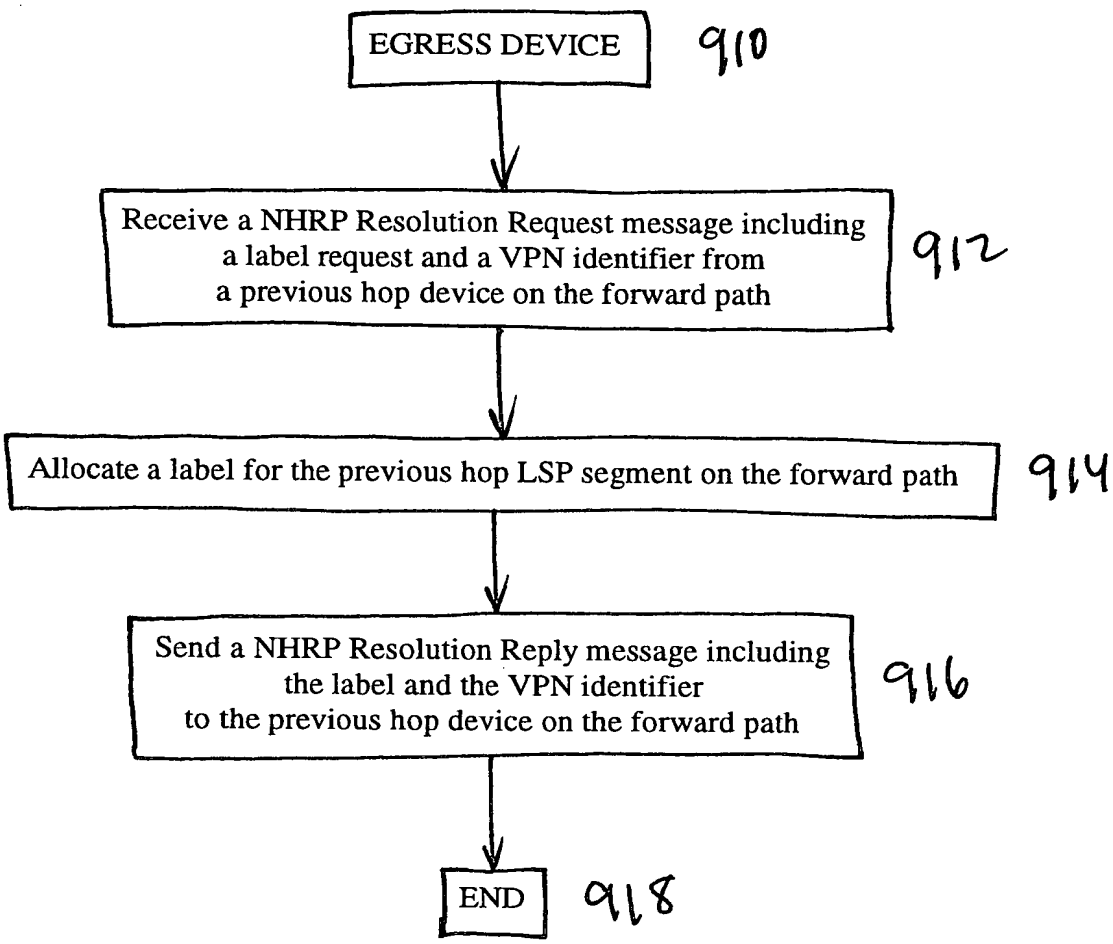
EGRESS DEVICE
910
Receive a NHRP Resolution Request message including a label request and a VPN identifier from a previous hop device on the forward path
912
Allocate a label for the previous hop LSP segment on the forward path
914
Send a NHRP Resolution Reply message including the label and the VPN identifier to the previous hop device on the forward path
916
END
918

FIG. 9B

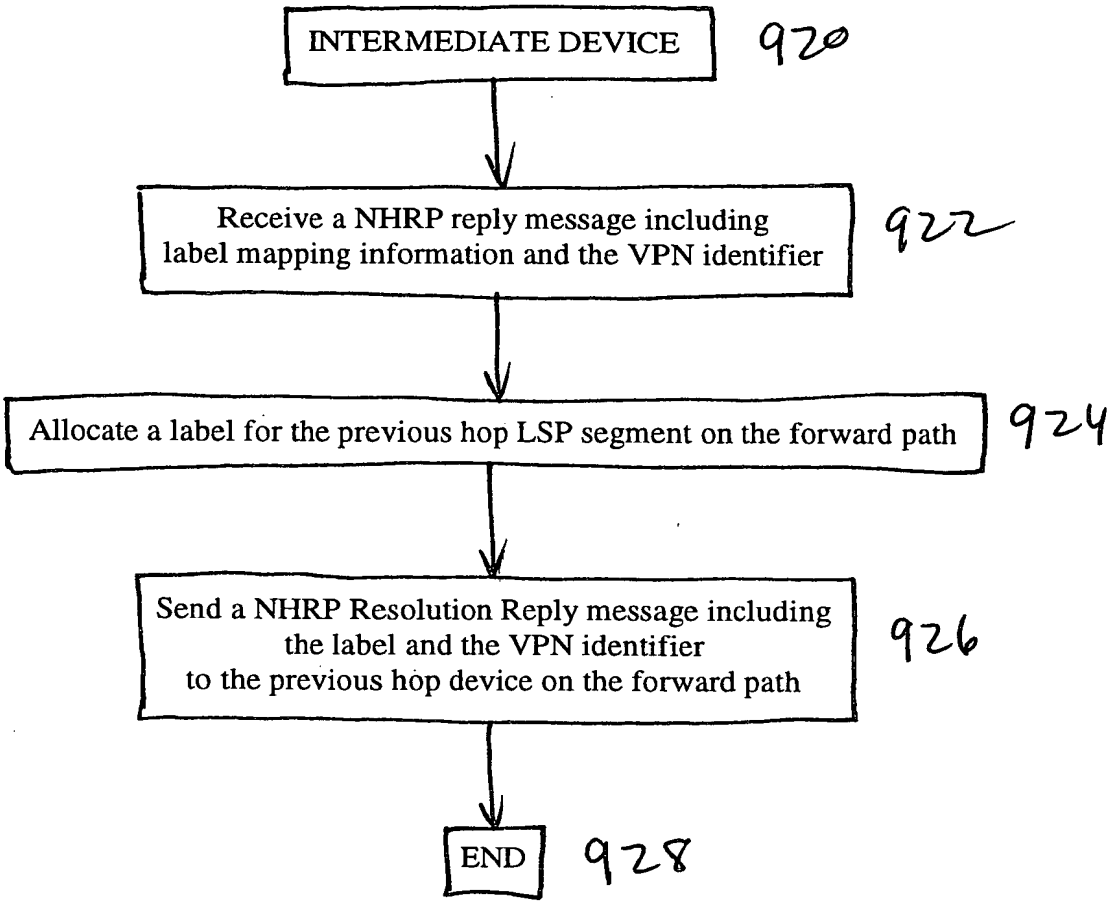
INTERMEDIATE DEVICE
920
Receive a NHRP reply message including label mapping information and the VPN identifier
922
Allocate a label for the previous hop LSP segment on the forward path
924
Send a NHRP Resolution Reply message including the label and the VPN identifier to the previous hop device on the forward path
926
END
928

FIG. 9C

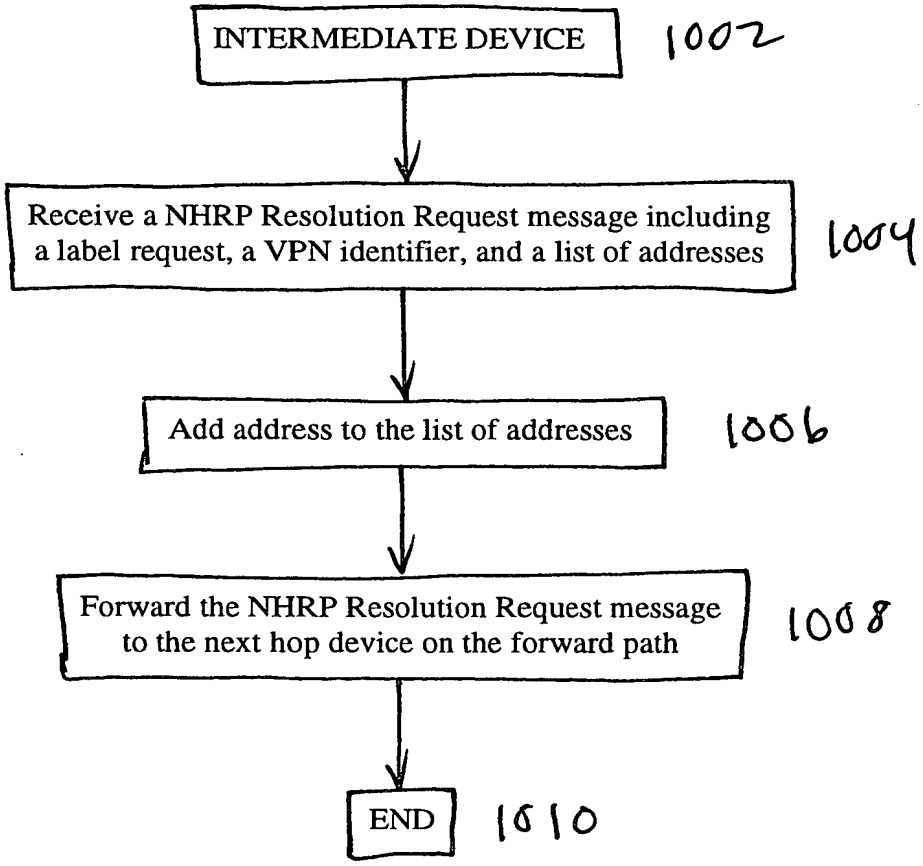
INTERMEDIATE DEVICE
1002
Receive a NHRP Resolution Request message including a label request, a VPN identifier, and a list of addresses
1004
Add address to the list of addresses
1006
Forward the NHRP Resolution Request message to the next hop device on the forward path
1008
END
1010

FIG. 10A

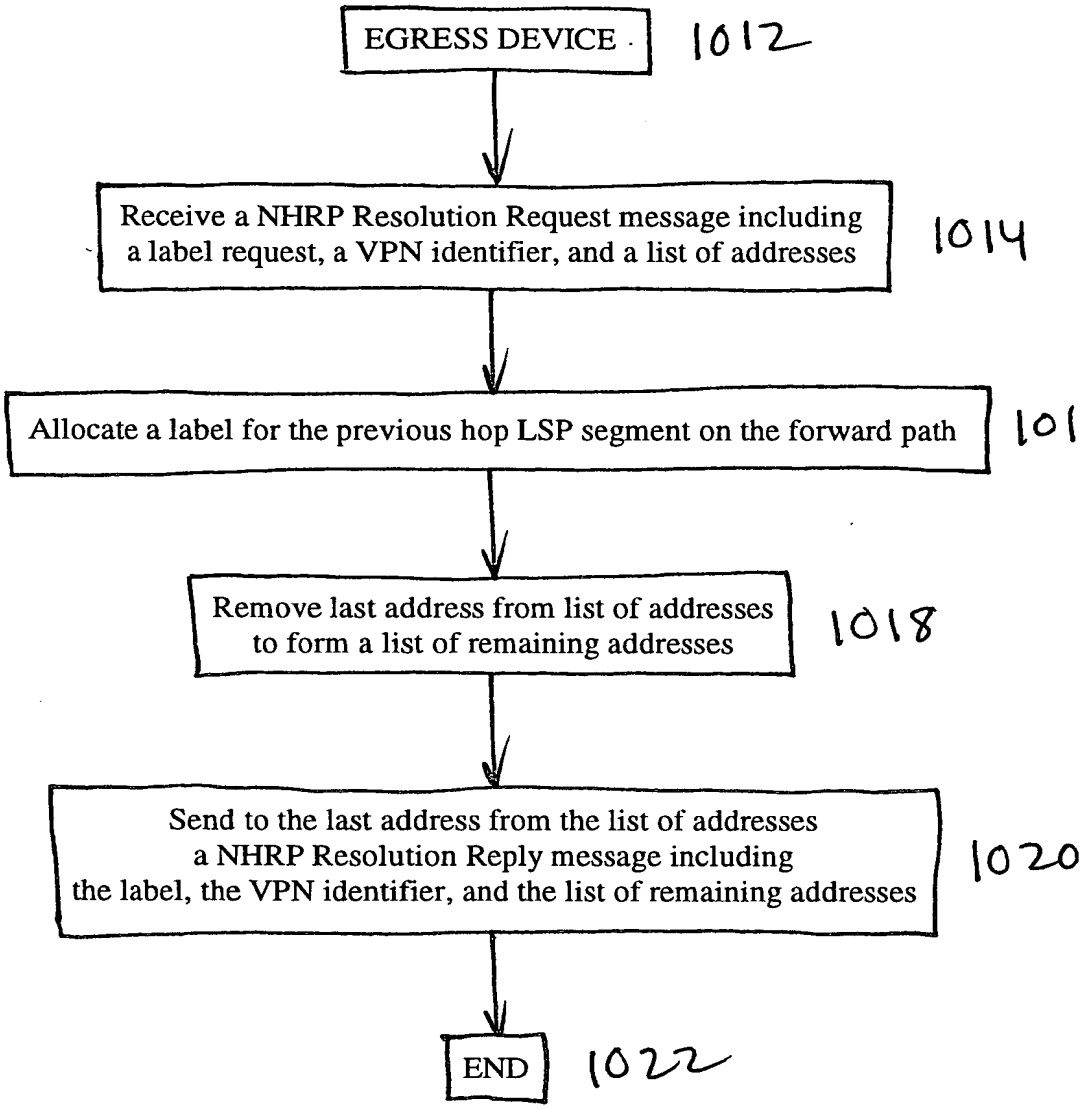
EGRESS DEVICE
1012
Receive a NHRP Resolution Request message including a label request, a VPN identifier, and a list of addresses
1014
Allocate a label for the previous hop LSP segment on the forward path
1016
Remove last address from list of addresses to form a list of remaining addresses
1018
Send to the last address from the list of addresses a NHRP Resolution Reply message including the label, the VPN identifier, and the list of remaining addresses
1020
END
1022

FIG. 10B

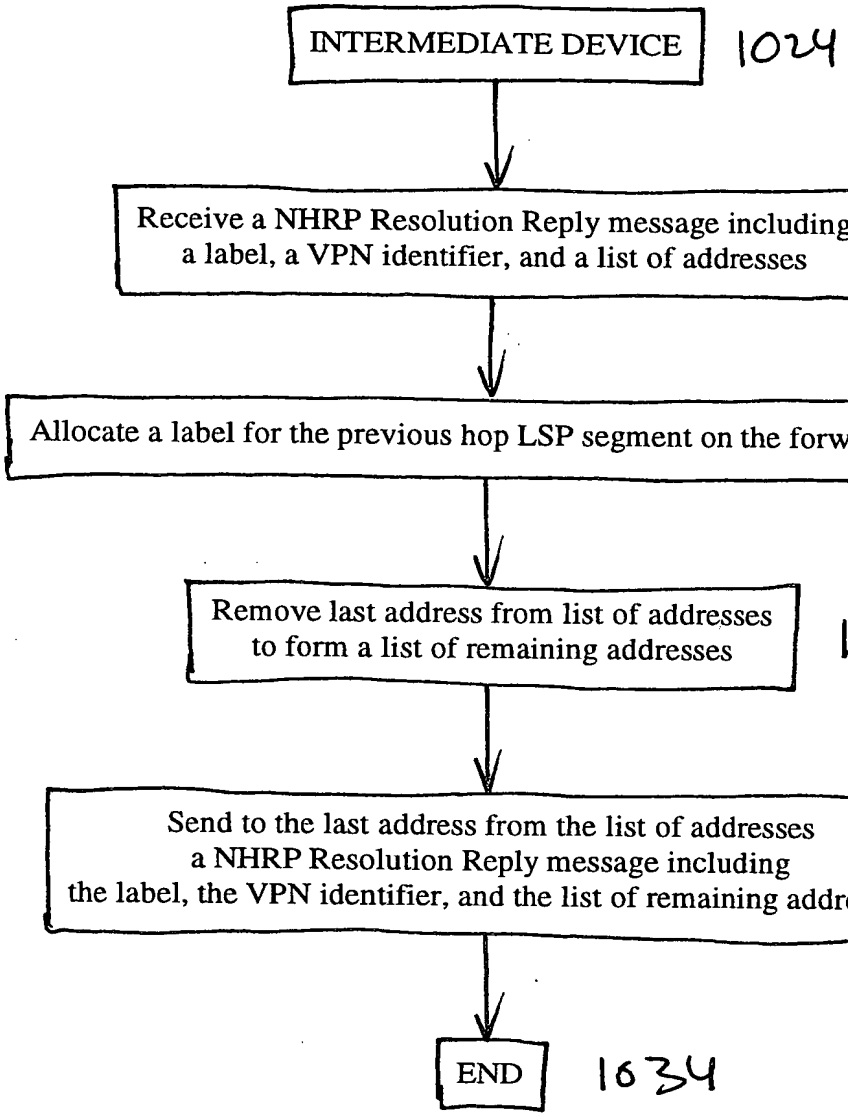
INTERMEDIATE DEVICE
1024
Receive a NHRP Resolution Reply message including a label, a VPN identifier, and a list of addresses
1026
Allocate a label for the previous hop LSP segment on the forward path
1028
Remove last address from list of addresses to form a list of remaining addresses
1030
Send to the last address from the list of addresses a NHRP Resolution Reply message including the label, the VPN identifier, and the list of remaining addresses
1032
END
1034

FIG. 10C

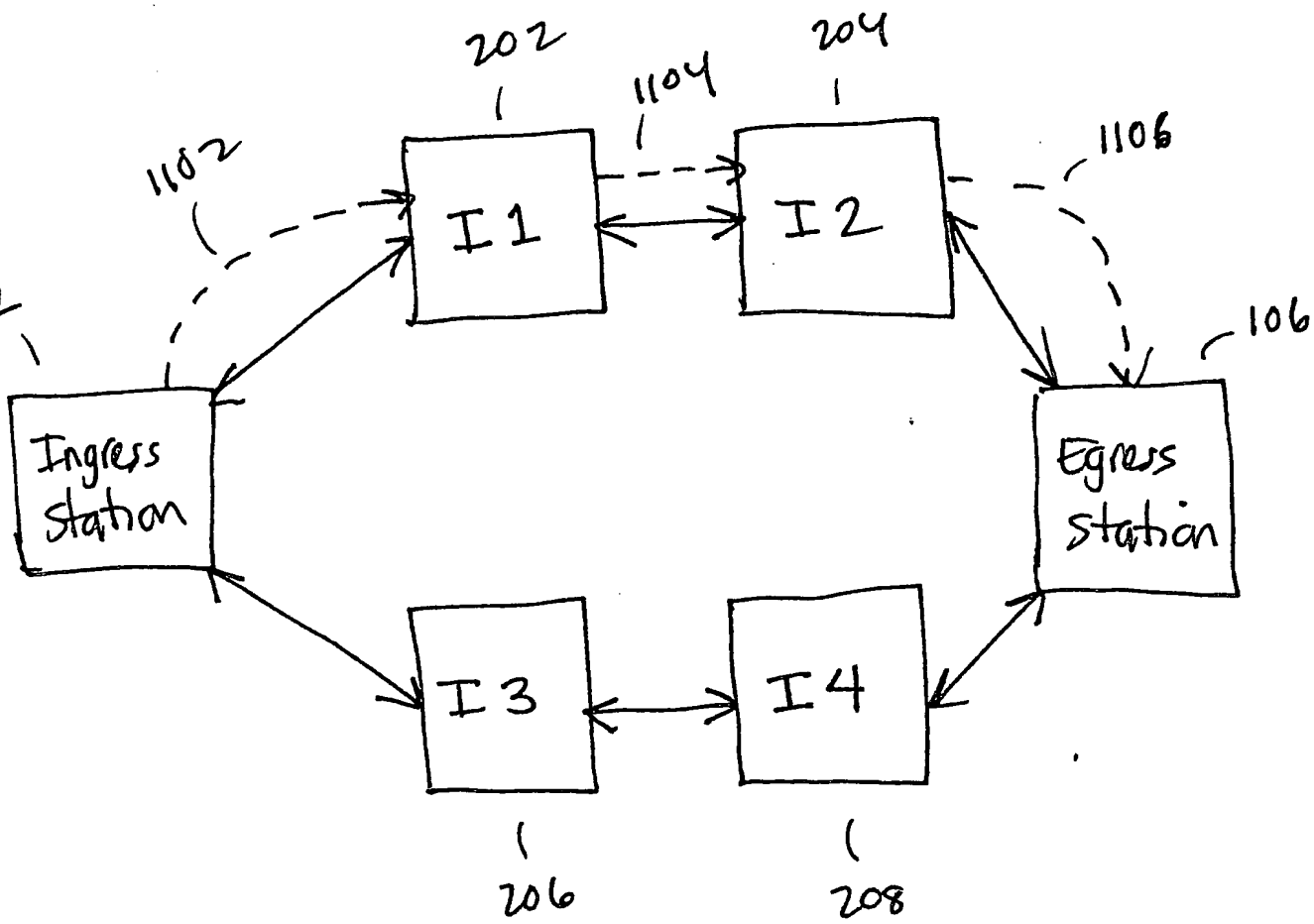
202
204
1104
1102
1106
I1
I2
102
106
Ingress Station
Egress Station
I3
I4
206
208

FIG. 11